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15

As this

16

molecule was optically active, a C-2 axis of symmetry was present in the molecule and proved that the absolute configuration at C-3 was (R).

The first step of this ring expansion is probably the esterification of the alcohol by the trifluoroacetic anhydride and the formation of a quaternary ammonium salt. Without any triethylamine, no rearrangement is observed. When the triethylamine is added, an azidirinium ion is probably formed and the attack of the trifluoroacetate anion takes place either intra- or intermolecularly.--

REMARKS

Claims 1-26, all the pending claims, stand rejected.

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The specification has been amended to incorporate portions of Cossy et al. (Tetrahedron Lett., 1995, 36, 549), cited on page 91 of the application as filed. All references cited in the application were specifically incorporated by reference on page 150, line 35 to page 151, line 1. Pursuant to MPEP 608.01(p), Applicant's undersigned representative has certified in a concurrently submitted declaration that the amendatory material is the same as that material that was previously incorporated by reference. Accordingly, no new matter has been added by the foregoing amendment.

Rejections under 35 U.S.C. §112, first paragraph

Claims 1-26 have been rejected under 35 U.S.C. §112, first paragraph, as allegedly "containing subject matter which was not described in the specification in such a way as to enable one skilled in the art . . . to make the invention." (Final Rejection at page 2). The Advisory Action states that the description of starting material in Example 77, citing Cossy et al., is essential material and therefore may not be incorporated by reference. Applicants respectfully traverse this rejection.

As will be recognized, the enablement requirement of §112 is satisfied so long as a disclosure contains sufficient information that persons of ordinary skill in the art having the disclosure before them would be able to make and use the invention. *In re Wands*, 8 U.S.P.Q.2d 1400 (Fed. Cir. 1988) (the legal standard for enablement under §112 is whether one skilled in the art would be able to practice the invention without undue experimentation). Applicants respectfully submit that those of skill in the art would indeed be able to make and use the claimed inventions, including those described in Example 77.

However, in an attempt to further the prosecution of this application, Applicants have amended the specification to include the material requested by the Examiner. As discussed above, Applicants have amended the specification to incorporate portions of Cossy et al.

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(Tetrahedron Lett., 1995, 36, 549), cited on page 91 of the application as filed. Pursuant to MPEP 608.01(p), Applicants have also certified in a concurrently submitted declaration that the amendatory material is the same as that material that was previously incorporated by reference.

The foregoing represents a bona fide attempt to advance the present case to allowance. Applicants respectfully request early notification of the same. Applicants invite the Examiner to contact the undersigned at (215) 564-8338 to clarify any unresolved issues raised by this response.

Respectfully submitted,

Owilym John Owen Attwell Registration No. 45,449

Date: January 16, 2001

WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP One Liberty Place - 46th Floor Philadelphia, PA 19103 (215) 568-3100

Attachments:

Copy of pages from 1994 Aldrich catalog

Applicant notes that the starting material (4R)-hydroxy-L-proline was commercially available from Aldrich Chemical Company prior to the filing date of the present application. See page 808 of 1994 Aldrich catalog, H5,440-9, a copy of which is enclosed herewith.

■ Hydrozypre ■

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28,703-2	3a-Hydroxy-5a-pregnan-20-one, 95-7 (516-54-1) (allopregnan-3a-oi-20-one) FW 318.50 mp 174-175° (aP + 95° (c = 0.8, C,H,OH) Beil. a(3),621 Merck Index 11.27s FT-NMR 1(3),576C SI 416,C,3 Selety 2,2932A R&S 1(2),2859K RTECS# TU4383000 Disp. A	1
26 616 5	Hydroxyprografian 3,20-dions, see Hydroxyprografianne	
ZB,019-2	20c-Nydroxypregn-4-cn-3-one [145-14-2] FW 318.49 mp 165-166* Beil. 8(3),947	250
H5,420-4	(+)-11a-Hydroxyprogesterone, 95% [80-75-7] (11a-hydroxypregn-4-ene-3,20-,,dione) FW 330.47 mp 165-166* [a]* + 179.5*(c = 1, CHCl.) FT-NMR 1(3),5826 FT-/R 1(5),1004A 3/416,8,6 R&3 1(2),2861M Disp. A	54 164
28,620-6	118-Hydroxyprogeaterone, 98% [600-57-7] (118-hydroxyprogn-4-ene-3,20	10mg
28,821-4	16a-Hydroxyprogesterone, 97% [438-07-3] (16a-hydroxypregn-4-ene-3,20 dione) FW 330.47 mp 224-228° [a]™ + 150° (c ≈ 0.65, CHCi,j Beil 8(4),2188 FT-NMR 1(3),583A SI 418,D,8 R&S 1(2),28610 Disp. A	1 Prog
	17a-Hydroxyprogesterone, 98% [68-96-2] (17a-hydroxypregn-4-ene-3,20-dione) FW 330,47 mp 219-220° [a]'' + 90° (c = 1, CHCl.) Beil. 8(3),2503 Merck Index 11,4773 FT-NMR 1(3),583B SI 418,A,7 Selety 2,1955D R&S 1(2),2883A RTECS# TU5060000 Disp. A	*9
OED	cls-3-Mydroxy-ot-proline, 97% [4298-05-9] FW 131.13 mp 232° (dec.) Bell. 22(5),6,4	1148
21,994-0	c/s-4-Hydroxy-8-proline, 99% [2584-71-6] [(28,4R)-(+)-4-hydroxy-2-pyrrolidine carboxylic acid] FW 131.13 mp 243° (dec.) [a]B +58° (c = 2, H,O) Bell. 22(1),548 Merck Index 11,4775 FT-NMR 1(1),887B FT-IR 1(1),584A S/ 91,B,9 R&S 1(1),863M Disp. A	250mg
21,906-0	cis-4-Hydroxy-c-proline, 99% (618-27-9) [(25,45)-(-)-4-hydroxy-2-pyrrolldine	
<u></u>	carboxylic acid] FW 131.13 mp 257° (dec.) [α]8 ·59.0° (c = 2, H ₁ O) ·Bell ·22(1),546 Merck Index 11,4775 FT-NMR 1(1),687C FT-IR 1(1),584B SI 91,C,9 R&S 1(1),683N Disp. A	250mg
H5,440-9	vrans ← Hydroxy-t-proline, 99 + % [51-35-4] ((2S,4R)-(·)-4-hydroxy-2-pyrrolidine carboxylic acid] FW 131.13 mp 273° (dec.) (a)³* ·75.6° (c = 1, H,O) Beil. 22,191 Merck Index 11,4775 FT-IR 1(1),5830 SI 82,A,1 R&S 1(1),6630 Diap. A A constituent of collagen. Arch. Biochem. Biophys., 270, 294 (1989).	10g 25g
38,880-3	3-Hydroxy-1-propanesulfonic acid, sodium sait, tech., 80% [3542-44-7]	100g 25g 100g
	3-Hydroxy-1-propanesulfonic acid y-sultons, see 1,3-Propane suitone	
23,635-7	2-Mydroxypropionitrile, see Lactonitrile 3-Hydroxypropionitrile, 99 + % [109-78-4] (ethylene cyanohydrin, hydra	50g
10,992-4 *		Sg 250g 1kg
H5,510-3	2'-Hydroxyproplophenone, 97% [610-99-1] HOC,H,COC,H, FW 150.18	100g 500g
H5,540-5 ★		100g 500g
37,093-2	Hydroxypropyl acrylate, 95%, mixture of isomers [999-61-1] H,C = CHCO,C,H,OH. FW 130.14 bp 77°/5mm AB 1.4450 d 1.044 Fp 193°F(89°C) Beil. 2(4),1489 FT.NMR 1(1),1044B SI 108,D,B RES 1(1),753K RTECSU AT1925000 Disp. C HIGHLY TOXIC IRRITANT	11.
19,188-4	Hydroxypropyl cellulese [9004-84-2] Merck Index 11,4778 FT-IR 1(2),1179A	5g 100g - 250g
19,18 9 -2	Hydroxypropyl cellulose [9004-64-2] Powder. Average m.W. 370,000	5g 100g
		250



21,994-0

808 B BULK QUANTITIES AVAILABLE FROM SAF SEE INSIDE BACK COVER

